

WHAT IS CLAIMED IS:

1. An isolated peptide selected from the group consisting of:
  - (a) a peptide set forth in Table 2
  - (b) a derivative of the peptide in (a); and
  - (c) a propeptide set forth in Table 1 .
2. The isolated peptide of claim 1, wherein Xaa<sub>1</sub> is Lys, Xaa<sub>2</sub> is Tyr, Xaa<sub>3</sub> is Glu and Xaa<sub>4</sub> is Trp.
3. An isolated nucleic acid encoding an  $\omega$ -conopeptide propeptide having an amino acid sequence set forth in Table 1.
4. The isolated nucleic acid of claim 3, wherein the nucleic acid comprises a nucleotide sequence set forth in Table 1.
5. An isolated conopeptide propeptide having an amino acid sequence set forth in Table 1.
6. A method for treating or preventing disorders associated with voltage gated ion channel disorders in which comprises administering to a patient in need thereof a therapeutically effective amount of an active agent selected from the group consisting of peptides (a) and (b) of claim 1 or a pharmaceutically acceptable salt thereof.
7. The method of claim 6, wherein said disorder is a neurologic disorder.
8. The method of claim 7, wherein said neurologic disorder is a seizure.
9. The method of claim 8, wherein said seizure is seizure is associated with epilepsy.
10. The method of claim 7, wherein said neurologic disorder is a neurotoxic injury associated with conditions of hypoxia, anoxia or ischemia.

